

FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NUMBER UPN-4566
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (if known see 37 CFR 1.5) 10/538,361
INTERNATIONAL APPLICATION NO. PCT/US2003/039714	INTERNATIONAL FILING DATE 12 December 2003 (12.12.2003)	PRIORITY DATE CLAIMED 13 December 2002 (13.12.2002)
TITLE OF INVENTION PRACTICAL PULSE SYNTHESIS VIA THE DISCRETE INVERSE SCATTERING TRANSFORM		
APPLICANT(S) FOR DO/EO/US Charles L. EPSTEIN and Jeremy MAGLAND		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input type="checkbox"/> 2. <input checked="" type="checkbox"/> 3. <input type="checkbox"/> 4. <input type="checkbox"/> 5. <input type="checkbox"/> 6. <input type="checkbox"/> 7. <input type="checkbox"/> 8. <input type="checkbox"/> 9. <input checked="" type="checkbox"/> 10. <input type="checkbox"/>	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9), and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) 35 U.S.C. 371(c)(4). An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).	
Items 11. to 20. below concern other document(s) or information included:		
11. <input type="checkbox"/> 12. <input type="checkbox"/> 13. <input type="checkbox"/> 14. <input type="checkbox"/> 15. <input type="checkbox"/> 16. <input type="checkbox"/> 17. <input type="checkbox"/> 18. <input type="checkbox"/> 19. <input type="checkbox"/> 20. <input checked="" type="checkbox"/>	An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.182-1.825. A second copy of the published international application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Other items or information: - Communication; - a return postcard.	

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 Date of Deposit: October 20, 2005

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid IMB control number.

U.S. APPLICATION NO. (if known 37 C.F.R. 1.5) 10/538,361		INTERNATIONAL APPLICATION NO. PCT/US2003/039714		ATTORNEY DOCKET NUMBER UPN-4566	
The following fees are submitted:					
21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a))		\$300		\$	
22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))				\$	
If written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)		\$0.00		\$	
All other situations		\$200			
23. <input type="checkbox"/> Search fee (37 CFR 1.492(b))					
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)		\$0			
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority		\$100		\$	
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB		\$400			
All other situations		\$500			
TOTAL of 21, 22 and 23 =				\$	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50=		X \$250	\$	
Surcharge of \$130.00 for furnishing any of the search fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$130.00	
Claims	Number Filed	Number Extra	Rate		
Total claims	- 20 =		X \$50	\$	
Independent Claims	- 3 =		X \$200	\$	
Multiple dependent claims(s) (if applicable)			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$65.00	
SUBTOTAL =				\$65.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	
TOTAL NATIONAL FEE =				\$65.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					
TOTAL FEES ENCLOSED =				\$65.00	
				Amount to be: refunded	\$
				Amount to be charged	\$

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid LMB control number.

- a. ☒ A check in the amount of **\$65.00** to cover the above fee is enclosed.
- b. ☐ Please charge my Deposit Account No. 23-3050 in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3050. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

John W. Caldwell
Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
(215) 568-3100

SIGNATURE

John W. Caldwell
NAME

28,937
REGISTRATION NUMBER

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Charles L. EPSTEIN and Jeremy MAGLAND

U.S. Serial No.: 10/538,361

Group Art Unit: not yet known

International Application No.: PCT/US2003/039714 **Examiner:** not yet assigned

International Filing Date: 12 December 2003

For: PRACTICAL PULSE SYNTHESIS VIA THE DISCRETE INVERSE SCATTERING TRANSFORM

COMMUNICATION

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The above-identified application was filed without an executed Declaration/Power of Attorney. Although no "Notification of Missing Requirements" has been received, applicant herewith submits the executed copy along with the required surcharge of \$65.00 under 37 CFR 1.16(e).

Respectfully submitted,

Date:

 20 2005


John W. Caldwell
Registration No. 28,937

Woodcock Washburn LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone (215) 568-3100
Facsimile: (215) 568-3439